

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P478576

Luminaire Tested: **IFLD-L-SA8A-740-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478576
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-740-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

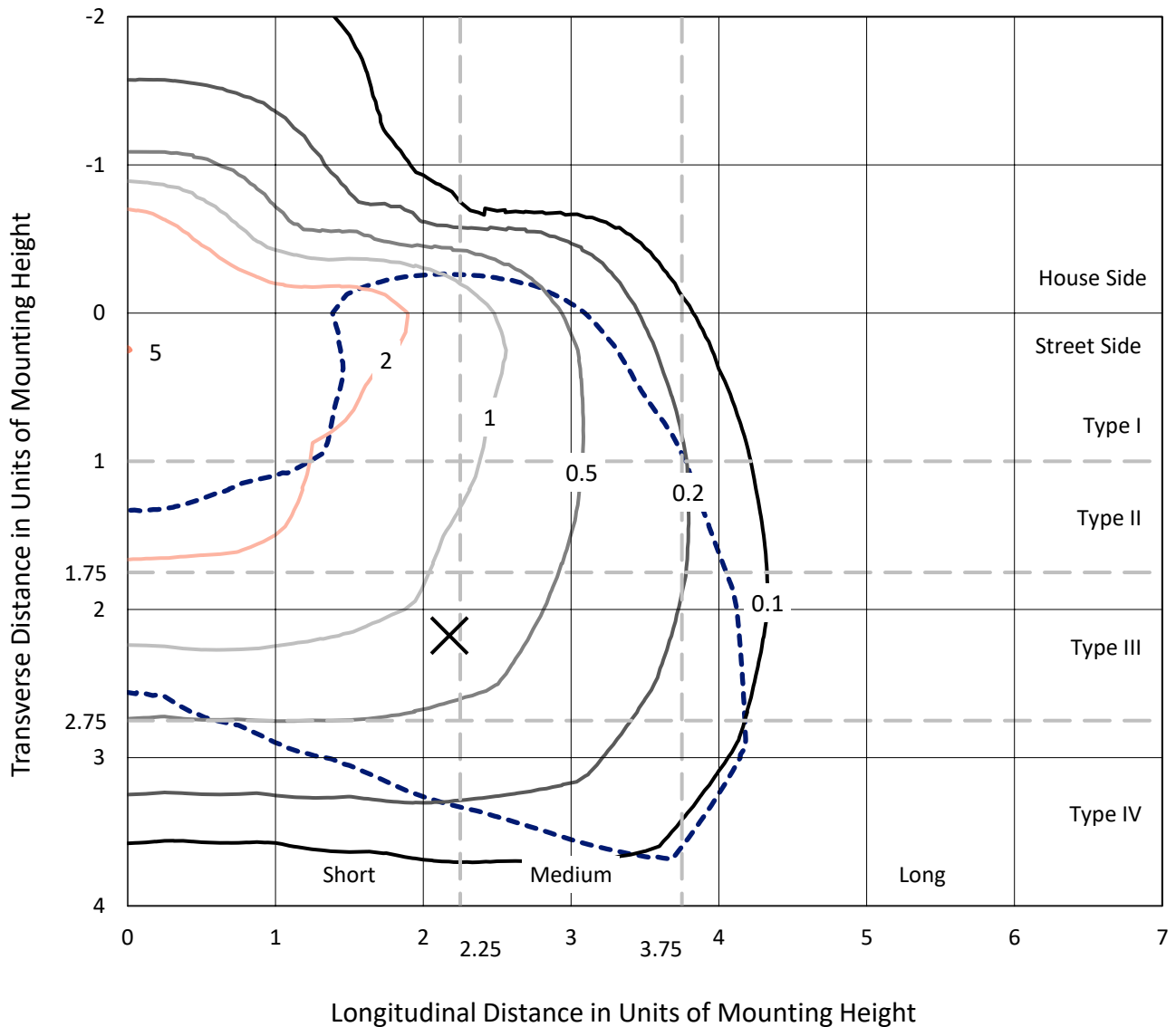
Lumens per Lamp: N/A
Luminaire Lumens: 34625.5 lumens
Efficiency: N/A
Efficacy: 139.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 247.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

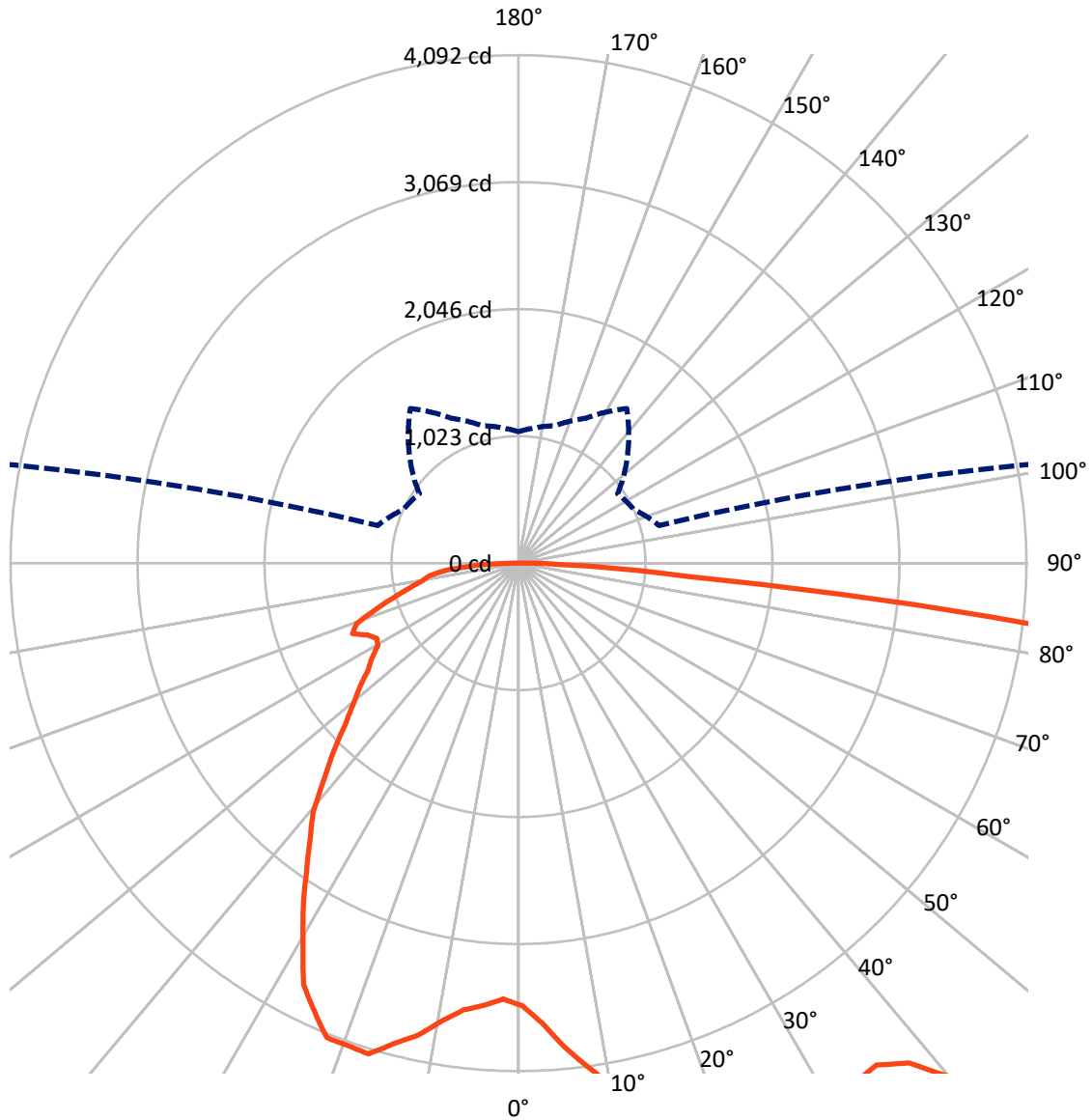
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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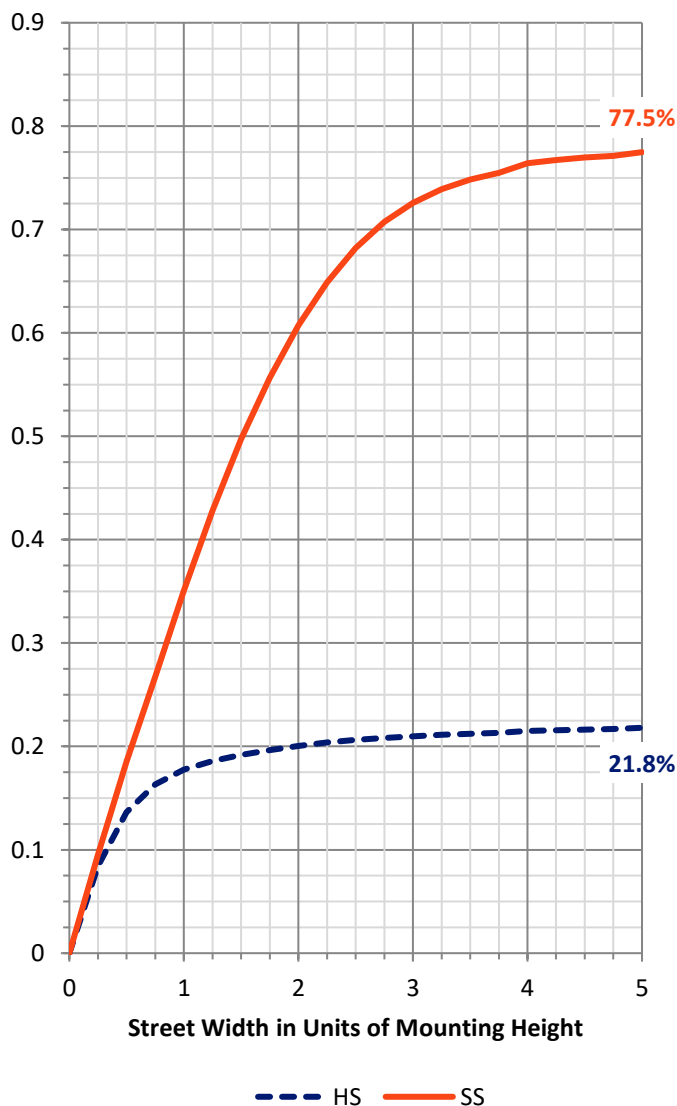
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7707.8	0.0	7707.8
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	26917.7	0.0	26917.7
	% Fixture	77.7	0.0	77.7
Total	Lumens	34625.5	0.0	34625.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.9	1.1
10°-20°	1214.0	3.5
20°-30°	2050.1	5.9
30°-40°	2837.0	8.2
40°-50°	4058.0	11.7
50°-60°	6545.1	18.9
60°-70°	9653.1	27.9
70°-80°	7009.8	20.2
80°-90°	893.6	2.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	34625.5	100.0
0°-180°	34625.5	100.0

Coefficient of Utilization



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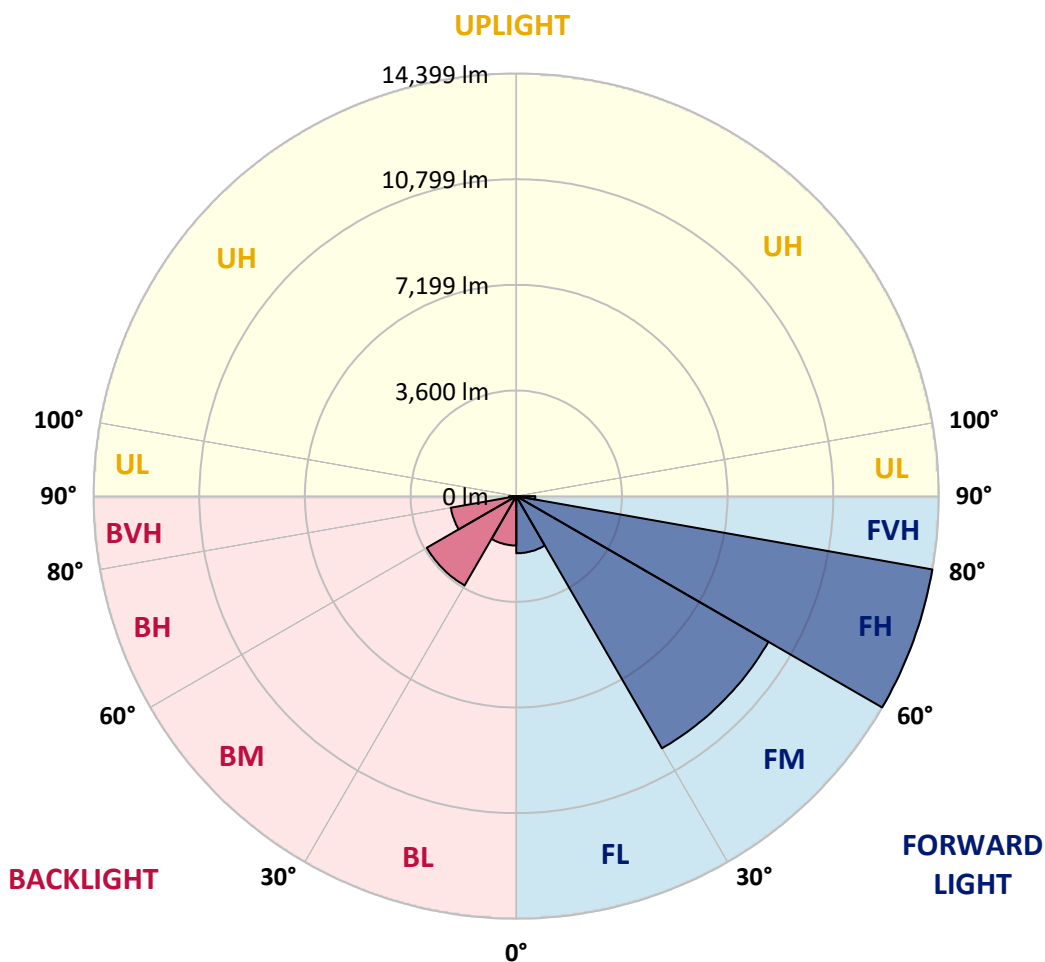
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1946.0	5.6			
FM (30°-60°)	9922.5	28.7			
FH (60°-80°)	14398.8	41.6			G5
FVH (80°-90°)	650.4	1.9			G4/750
BL (0°-30°)	1683.0	4.9	B3/2500		
BM (30°-60°)	3517.6	10.2	B3/5000		
BH (60°-80°)	2264.1	6.5	B3/2500		G3/2500
BVH (80°-90°)	243.2	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3565.8	3565.8	3565.8	3565.8	3565.8	3565.8	3565.8	3565.8	3565.8	3565.8	3565.8
2.5°	3756.2	3778.6	3756.2	3752.5	3715.2	3689.0	3711.4	3677.8	3640.5	3625.5	3591.9
5°	4099.7	4103.5	4062.4	4066.1	3987.7	3905.6	3920.5	3819.7	3711.4	3670.3	3603.1
7.5°	4450.7	4409.6	4349.9	4331.2	4208.0	4118.4	4107.2	4017.6	3849.6	3756.2	3662.9
10°	4678.5	4693.4	4596.3	4514.2	4409.6	4301.4	4297.6	4129.6	4032.5	3894.4	3774.9
12.5°	4880.1	4883.8	4801.7	4671.0	4540.3	4405.9	4424.6	4349.9	4185.6	4054.9	3935.4
15°	5036.9	5014.5	4924.9	4805.4	4667.3	4562.7	4551.5	4488.1	4349.9	4241.6	4043.7
17.5°	5081.7	5070.5	4980.9	4854.0	4719.6	4641.1	4671.0	4566.5	4510.5	4413.4	4223.0
20°	4995.9	4969.7	4954.8	4812.9	4715.8	4708.4	4682.2	4704.6	4611.3	4521.7	4383.5
22.5°	4839.0	4827.8	4820.4	4708.4	4663.5	4697.1	4742.0	4775.6	4760.6	4674.7	4517.9
25°	4678.5	4730.8	4682.2	4629.9	4693.4	4779.3	4768.1	4876.4	4876.4	4850.2	4719.6
27.5°	4790.5	4756.9	4719.6	4693.4	4715.8	4850.2	4842.8	4973.5	5022.0	4973.5	4824.1
30°	5070.5	5036.9	4928.6	4812.9	4783.0	4928.6	4966.0	5081.7	5104.1	4984.7	4857.7
32.5°	5597.0	5578.3	5406.6	5066.8	4883.8	4966.0	4984.7	5115.3	5096.7	5022.0	4969.7
35°	6377.4	6313.9	6074.9	5499.9	5096.7	5014.5	4966.0	5070.5	5141.5	5104.1	5055.6
37.5°	7232.4	7161.5	6866.5	6138.4	5481.3	5145.2	5107.9	5193.7	5275.9	5257.2	5156.4
40°	8050.1	8050.1	7785.0	6937.4	6052.5	5462.6	5470.1	5373.0	5447.6	5414.0	5432.7
42.5°	8856.6	8826.8	8718.5	7874.6	6664.9	5992.8	5873.3	5630.6	5765.0	5753.8	5780.0
45°	9674.3	9651.9	9622.1	8748.3	7542.3	6709.7	6646.2	6209.3	6332.6	6280.3	6392.3
47.5°	10327.8	10353.9	10353.9	9722.9	8479.5	7665.5	7572.2	6881.4	7116.7	7142.8	7168.9
50°	10884.1	10895.3	10884.1	10652.6	9525.0	8759.5	8569.1	7867.2	8102.4	8307.8	8546.7
52.5°	11653.3	11668.2	11615.9	11526.3	10943.8	9909.6	9696.7	8916.4	9398.0	9614.6	10044.0
55°	12601.7	12489.6	12392.6	12459.8	12306.7	11175.3	10955.0	9999.2	10723.5	11011.0	11869.8
57.5°	12777.1	12874.2	13120.7	13654.6	13874.9	12407.5	12280.5	11328.4	12220.8	12471.0	13904.8
60°	13397.0	13236.4	13841.3	14998.8	15245.2	14013.0	13882.4	12784.6	13710.6	13972.0	15782.9
62.5°	13803.9	13796.5	14692.6	16066.6	16626.7	15678.3	15413.2	14677.7	15319.9	15573.8	17829.0
65°	13684.5	13792.7	15383.4	16693.9	17780.5	17571.4	17418.3	16305.6	17153.2	17130.8	19162.0
67.5°	12594.2	12900.4	14946.5	17145.7	19498.0	19878.9	19830.3	18594.4	18643.0	18168.8	19755.7
70°	11082.0	10977.4	13098.3	16675.3	20356.8	22615.8	22604.6	20297.1	19983.4	18396.5	18053.0
72°	8513.1	8397.4	10141.1	14319.2	19905.0	23709.8	24045.8	21476.9	19968.5	17451.9	14912.9
72.5°	7729.0	7628.2	9364.4	13479.1	19404.7	23993.5	23836.7	21521.8	19811.7	17007.6	13930.9
75°	3558.3	3442.6	4678.5	8251.7	15136.9	21260.4	21794.3	20140.2	17302.5	13538.8	8345.1
77.5°	1060.4	1026.8	1504.7	3330.6	8796.9	15663.4	15868.7	15196.7	12078.9	7415.4	3095.3
80°	589.9	593.7	776.6	1247.1	3868.2	9054.5	9793.8	9386.8	5925.6	2449.4	1030.5
82.5°	328.6	347.2	485.4	739.3	1777.3	4155.7	4473.1	4312.6	2143.2	1150.0	563.8
85°	171.8	179.2	253.9	395.8	1008.1	1314.3	1351.6	1448.7	1112.7	784.1	302.4
87.5°	67.2	67.2	93.3	164.3	373.4	407.0	365.9	444.3	638.5	507.8	149.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3565.8	3565.8	3565.8	3565.8	3565.8	3565.8	3565.8	3565.8	3565.8	3565.8	3565.8
2.5°	3621.8	3591.9	3588.2	3539.7	3554.6	3513.5	3517.3	3509.8	3513.5	3506.1	3487.4
5°	3603.1	3580.7	3517.3	3558.3	3521.0	3573.3	3614.3	3599.4	3610.6	3606.9	3610.6
7.5°	3629.3	3599.4	3591.9	3569.5	3603.1	3625.5	3659.1	3752.5	3745.0	3756.2	3778.6
10°	3707.7	3674.1	3651.7	3685.3	3666.6	3737.6	3774.9	3823.4	3909.3	3913.0	3868.2
12.5°	3860.8	3838.4	3793.6	3801.0	3864.5	3886.9	3909.3	3939.2	3995.2	3984.0	4025.1
15°	4036.3	3987.7	3961.6	3954.1	3969.1	3995.2	3991.5	4021.3	4051.2	4077.3	4066.1
17.5°	4163.2	4099.7	4107.2	4144.5	4140.8	4133.3	4084.8	4069.9	4084.8	4099.7	4092.3
20°	4293.9	4301.4	4245.4	4211.8	4196.8	4122.1	4084.8	4040.0	3995.2	4017.6	4051.2
22.5°	4458.2	4424.6	4342.4	4241.6	4166.9	4122.1	4006.4	3928.0	3928.0	3950.4	3939.2
25°	4644.9	4573.9	4432.0	4249.1	4155.7	3965.3	3883.2	3872.0	3842.1	3875.7	3890.6
27.5°	4790.5	4727.0	4532.9	4223.0	3965.3	3812.2	3763.7	3748.8	3797.3	3801.0	3860.8
30°	4850.2	4831.6	4547.8	4155.7	3771.2	3524.7	3494.9	3562.1	3614.3	3692.8	3696.5
32.5°	4928.6	4936.1	4570.2	3998.9	3517.3	3270.8	3226.0	3308.2	3457.5	3521.0	3569.5
35°	5059.3	5096.7	4551.5	3804.8	3248.4	3013.2	3005.7	3028.1	3173.7	3285.8	3349.2
37.5°	5287.1	5279.6	4547.8	3573.3	3035.6	2789.2	2729.4	2736.9	2834.0	2927.3	2916.1
40°	5593.3	5563.4	4536.6	3270.8	2759.3	2598.7	2497.9	2460.6	2453.1	2427.0	2434.5
42.5°	6011.5	5951.7	4532.9	2964.7	2509.1	2337.4	2266.4	2169.4	2098.4	1964.0	1971.5
45°	6593.9	6489.4	4435.8	2677.2	2262.7	2120.8	2012.5	1941.6	1788.5	1620.5	1620.5
47.5°	7493.8	7154.0	4439.5	2359.8	2023.7	1908.0	1833.3	1710.1	1545.8	1411.4	1396.4
50°	8819.3	8042.7	4312.6	2109.6	1829.6	1751.2	1672.8	1530.9	1374.0	1280.7	1291.9
52.5°	10529.4	9368.2	4308.8	1885.6	1676.5	1620.5	1534.6	1407.7	1291.9	1232.2	1209.8
55°	12568.0	11123.1	4443.2	1702.6	1519.7	1489.8	1452.5	1347.9	1235.9	1183.6	1179.9
57.5°	14655.3	12836.9	4659.8	1571.9	1385.2	1407.7	1381.5	1299.4	1209.8	1150.0	1142.5
60°	16511.0	14196.0	4223.0	1415.1	1265.8	1314.3	1351.6	1280.7	1232.2	1228.4	1202.3
62.5°	17911.1	14778.5	3211.1	1295.6	1202.3	1291.9	1392.7	1437.5	1415.1	1445.0	1448.7
65°	18422.7	14427.5	2210.4	1232.2	1153.8	1344.2	1568.2	1553.3	1422.6	1366.6	1396.4
67.5°	17705.8	13004.9	1639.1	1157.5	1120.1	1452.5	1669.0	1482.3	1284.4	1277.0	1254.6
70°	15226.5	11022.2	1336.7	1079.1	1064.1	1392.7	1624.2	1374.0	1209.8	1161.2	1138.8
72°	12131.2	8584.1	1172.4	1023.1	974.5	1243.4	1519.7	1288.2	1146.3	1086.5	1060.4
72.5°	11074.5	7956.8	1150.0	996.9	955.9	1209.8	1467.4	1262.0	1131.3	1079.1	1038.0
75°	6074.9	4073.6	1011.9	914.8	806.5	1045.5	1359.1	1183.6	1067.9	993.2	985.7
77.5°	2259.0	1579.4	873.7	810.2	698.2	903.6	1235.9	1123.9	970.8	877.4	858.8
80°	866.2	832.6	713.2	683.3	586.2	791.6	1138.8	1008.1	825.2	731.8	702.0
82.5°	526.5	485.4	541.4	533.9	448.1	720.6	1071.6	944.7	731.8	593.7	575.0
85°	287.5	287.5	377.1	362.2	313.6	575.0	810.2	627.3	463.0	380.8	388.3
87.5°	126.9	149.4	201.6	190.4	171.8	324.8	395.8	332.3	231.5	156.8	168.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)